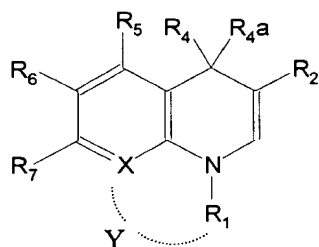


IN THE CLAIMS

Claims 1 – 325 (Cancelled).

326. (New) A microbial efflux pump inhibitor compound of Formula I



wherein,

X is selected from CH, C-F, C-OCH₃, N or C; wherein when X is C, the nitrogen atom to which R₁ is linked forms an optionally substituted 6- or 7-membered ring with X of the adjacent ring, the 6- or 7 ring-membered ring contains a nitrogen atom, carbon atoms and optionally a heteroatom Y, where Y represents oxygen; wherein when the 6- or 7 ring-membered ring is substituted, the one or more substituents are a (C₁₋₆) alkyl group;

R₁ is selected from C₁₋₆ alkyl, C₃₋₆ cycloalkyl or arylS(O)_talkyl, where t is 0, or aryl optionally monosubstituted or disubstituted with linear or branched (C₁-C₆) alkyl, hydroxyl, alkoxy, alkylthio, halogen, haloalkyl, mercapto, amino, mono linear or branched (C₁-C₃)alkylamino, di linear or branched branched (C₁-C₃)alkylamino, phenyl, substituted phenyl or optionally substituted phenylamino wherein the phenyl is substituted by linear or branched (C₁-C₃)alkyl, aralkyl, amino, alkylamino, alkanoylamino, α-aminoalkanoylamino, hydroxy, alkoxy, alkanoyloxy, α-aminoalkanoyloxy, or halogen;

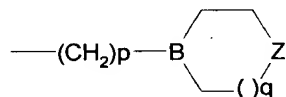
R₂ is COOR₃, or CONHR₁₃, where R₁₃ is the residue of one of the 20 naturally occurring amino acids: alanine, arginine, asparagines, aspartic acid, cysteine, glutamine, glutamic acid, glycine, histidine, isoleucine, leucine, lysine, methionine, phenylalanine,

proline, serine, threonine, tryptophan, tyrosine, valine or an optically active isomer thereof or a racemic mixture thereof, or a combination of these amino acids to give dipeptidyl, tripeptidyl or polypeptidyl residues;

R_3 is H, C_{1-6} alkyl, C_{3-6} cycloalkyl, aralkyl, $(CH_2)_nCH(R_{14})OC(=O)R_{15}$,

wherein n is 0-6, R_{14} is H and R_{15} is C_2H_5 or $C(CH_3)_3$; or

R_3 is



wherein B is CH or N, and when B is CH, Z is NCH_3 , and when B is N, Z is O; p is 0 to 2; q is 0 to 1;

R_4 and R_{4a} taken together are oxo (=O);

R_5 is H, C_{1-5} alkyl or amino;

R_6 is F;

R_7 is Br, F or NR_9R_{10}

wherein

R_9 is H and R_{10} is a 5-membered, 6-membered, carbocyclic, bicyclic heterocyclic ring linked to the nitrogen of NR_9R_{10} through an atom of the heterocycle other than the heterocyclic atom, or

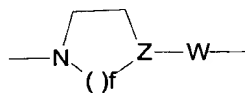
R_9 and R_{10} taken together with the nitrogen atom to which they are attached form part of a heterocycle which heterocycle is monocyclic, bicyclic, and said carbocycle and heterocycle is optionally substituted with OA, C_{1-6} alkyl or $NR_{16}R_{17}$;

A is H, C_{1-6} alkyl, glycosyl, aralkyl, C_{1-6} alkanoyl or aminoalkanoyl wherein the aminoalkanoyl group is an aminoacid residue derived from one of the 20 naturally occurring amino acids or an optically active isomer thereof, or a racemic mixture thereof wherein the amino residue is derived from alanine, arginine, asparagine, aspartic acid,

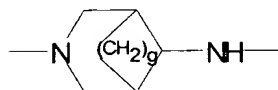
cysteine, glutamine, glutamic acid, glycine, histidine, isoleucine, leucine, lysine, methionine, phenylalanine, proline, serine, threonine, tryptophan, tyrosine, or valine; or

R_{16} and R_{17} are the same or different and represent H, C_{1-6} alkyl, or substituted C_{1-6} alkyl wherein the substituent is selected from alkanoyl or aminoalkanoyl; or

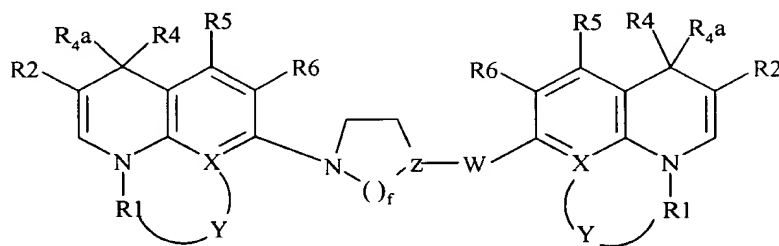
R_7 is either



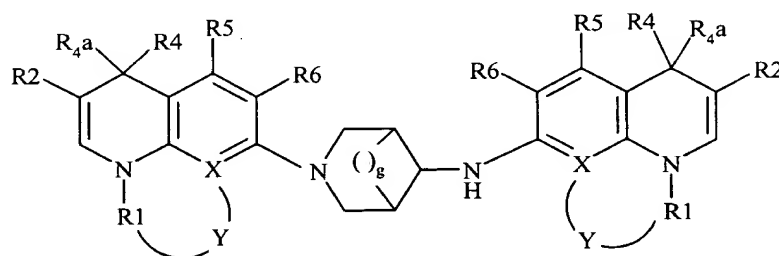
or



wherein f is 1, 2 or 3, g is 0 to 2; Z is CH or N, and when Z is CH, W is NH or when Z is N, W is absent; wherein when the R_7 moiety is linked to 2 core molecules of the Formula I to form a bis compound, the bis compound is of the formula

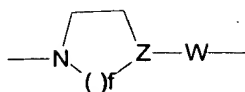


or



where all symbols are as defined above;

or a pharmaceutically acceptable salt, hydrate, polymorph or a pseudopolymorph thereof with a proviso that when X is CH, R_5 is not H, R_1 is not cyclopropyl and R_7 is not



327. (New) A compound according to claim 326, wherein, when X is C, R₁ is selected from the group consisting of CH₂CH₂CH₂-, CH₂CH₂Y-, CH₂CH₂CH₂CH₂- and CH₂CH₂CH₂Y- where Y is oxygen.

328. (New) An efflux pump inhibitor compound selected from the group consisting of :

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(4'-amino-3'-methyl piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-{4'-(methylamino)-3',3'-dimethylpiperidin-1-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

i-Propyl 1-cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(4'-amino-3',3'-dimethyl-piperidin-1-yl)-4-oxo-quinoline-3-carboxylate and its salts;

n-Butyl 1-cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(4'-amino-3',3'-dimethyl-piperidin-1-yl)-4-oxo-quinoline-3-carboxylate and its salts;

Ethoxycarbonylmethyl 1-cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(4'-amino-3',3'-dimethylpiperidin-1-yl)-4-oxo-quinoline-3-carboxylate and its salts;

Benzyl 1-cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-{4'-(t-butoxycarbonyl amino)-3',3'-dimethylpiperidin-1-yl}-4-oxo-quinoline-3-carboxylate and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-{4'-N-(t-butoxycarbonyl-L-alanyl) amino-3',3'-dimethylpiperidin-1-yl}-4-oxo-quinoline-3-carboxylic acid hydrochloride;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(4'-L-alanylamino-3',3'-dimethylpiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid hydrochloride;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(3',3'-dimethyl-4'-(t-butoxy-carbonylvalinylamino)piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(3',3'-dimethyl-4'-(L)-valyl-aminopiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid hydrochloride;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(4'-(L)-aspartylamino-3',3'-dimethylpiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid hydrochloride;

1-Ethyl-6,8-difluoro-1,4-dihydro-7-(4'-ethylaminopiperidin-1'-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6,8-difluoro-1,4-dihydro-7-(4'-amino-3'-methylpiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6,8-difluoro-1,4-dihydro-7-(quinuclidinyl-3-yl-amino)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6,8-difluoro-1,4-dihydro-7-((1 α ,5 α ,6 α)-6-amino-N-benzyl-3-azabicyclo [3.1.0] hex-6-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-(3'-Fluorophenyl)-6-fluoro-1,4-dihydro-7-(4'-methylpiperazin-1'-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-(2,4-Difluorophenyl)-6-fluoro-1,4-dihydro-7-(4'-ethylaminopiperidin-1'-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-(2',4'-Difluorophenyl)-6-fluoro-5-methyl-1,4-dihydro-7-(4'-aminopiperidin-1'-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-(2',4'-Difluorophenyl)-6-fluoro-5-methyl-1,4-dihydro-7-(4'-methylamino piperidin-1'-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-1,4-dihydro-7-(3'-aminopyrrolidin-1'-yl)-4-oxo-1,8-naphthyridine-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-1,4-dihydro-7- $\{ (1\alpha,5\alpha,6\alpha) \}$ -6-amino-N-benzyl-3-azabicyclo [3.1.0] hex-6-yl}-4-oxo-1,8-naphthyridine-3-carboxylic acid and its salts;

1-(2,4-Difluorophenyl) -6-fluoro-1, 4-dihydro-7-(3'-aminopyrrolidin-1'-yl)- 4-oxo-1,8-naphthyridine-3-carboxylic acid and its salts;

1-(2,4-Difluorophenyl) -6-fluoro-1, 4-dihydro-7- $\{ (1\alpha,5\alpha,6\alpha) \}$ -6-amino-N-benzyl-3-azabicyclo [3.1.0]hex-6-yl}- 4-oxo-1,8-naphthyridine-3-carboxylic acid and its salts;

1-(2,4-Difluorophenyl)-6-fluoro-1,4-dihydro-7-(3',3'-dimethyl-4'-hydroxypiperidin-1'-yl)-4-oxo-1,8-naphthyridine-3-carboxylic acid and its salts;

(RS)- (\pm) -9-Fluoro-6, 7-dihydro-8- $\{ 4'-(L-\alpha\text{-aspartyl oxy}) \}$ piperidin-1-yl}-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid hydrochloride;

7H-Pyrido[1,2,3-de]-1,4-benzoxazine-9-fluoro-2,3-dihydro-3-methyl-10-(3'-ethyl 4'-hydroxypiperidin-1'-yl)-7-oxo-6-carboxylic acid and its salts;

7H-Pyrido[1,2,3-de]-1,4-benzoxazine-9-fluoro-2, 3-dihydro-3-methyl-10- (3'-amino methyl-4'-hydroxypiperidin-1'-yl)-7-oxo-6-carboxylic acid and its salts;

1-Cyclopropyl-6, 8-difluoro-5-methyl-1, 4-dihydro -7-(3', 3'-dimethyl-4'-ethylamino piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salt;

1-Cyclopropyl-6,7,8-trifluoro-5-methyl-1,4-dihydro- 4-oxo-quinoline-3-carboxylic acid;

(S)-(-)-9-Fluoro-6,7-dihydro-8- (3', 3'-dimethyl-4'-ethylaminopiperidin-1-yl)-5-methyl-1-oxo-1H, 5H-benzo[i,j]quinolizine-2-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-1, 4-dihydro-7- (3'-aminomethyl-4'-hydroxypiperidin 1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-1, 4-dihydro-7- (4'-dimethylamino-3'-methylpiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-{4'-cyclopropylaminopiperidin-1-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1, 4-dihydro -7-(4'-(t-butoxycarbonyl-L-ala-ala)amino-3', 3'-dimethyl piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid hydrochloride;

5-Amino-1-cyclopropyl-6-fluoro-8-methoxy-1, 4-dihydro -7-{4'-ethylamino-3', 5'-dimethylpiperidin-1-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

Ethyl 1-(2,4-difluorophenyl) -6-fluoro -1, 4-dihydro-7- (4-amino-3-ethylpiperidin-1-yl)- 4-oxo-1,8-naphthyridine-3-carboxylate;

1-(2,4-difluorophenyl) -6-fluoro-1, 4-dihydro-7- (4-amino-3, 5-dimethylpiperidin-1-yl)- 4-oxo-1,8-naphthyridine-3-carboxylic acid and its salts;

Ethyl 1-(2,4-difluorophenyl) -6-fluoro-5-methyl-1, 4-dihydro-7- (4-amino-3, 3-dimethylpiperidin-1-yl)- 4-oxo-1,8-naphthyridine-3-carboxylate;

(S)-(-)-9-fluoro-6,7-dihydro-8- (4'-hydroxy- 3'-fluoropiperidin-1-yl)-5-methyl-1-oxo-1H, 5H-benzo[i,j]quinolizine-2-carboxylic acid and its salts;

10-Fluoro-11- (4-aminopiperidin-1-yl)-3,4-dihydro-4 (S)-methyl-8-oxo-2H, 8H-pyrido[1,2,3-ef]-1,5-benzoxazipin-7-carboxylic acid and its salt;.

(RS)-(\pm)-6, 7-dihydro-8- (trans-4'-hydroxy-3'-methylpiperidin-1-yl)-5-methyl-1-oxo-1H, 5H-benzo[i,j]quinolizine-2-carboxylic acid and its salts;

(RS)-(\pm)-6, 7-dihydro-8- (cis-4'-hydroxy-3'-methylpiperidin-1-yl)-5-methyl-1-oxo-1H, 5H-benzo[i,j]quinolizine-2-carboxylic acid and its salts;

(RS)-(\pm)-6, 7-dihydro-8- (4'-hydroxy-3', 3'-dimethylpiperidin-1-yl)-5-methyl-1-oxo-1H, 5H-benzo[i,j]quinolizine-2-carboxylic acid and its salts;

1-Ethyl-6-fluoro-1, 4-dihydro -7-(1', 2',3',4'-tetrahydroisoquinolin-2-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Ethyl-6,8-fluoro-1, 4-dihydro -7-(4'-acetoxypiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Ethyl-6,8-fluoro-1, 4-dihydro -7-(4'-{2'-(2'-oxazolidin-1-yl) ethyl} piperazin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1- Ethyl-6, 8-difluoro-1, 4-dihydro -7-{(1 α ,5 α ,6 α)-6-amino-3-azabicyclo [3.1.0]-hex-3-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1- ethyl -6, 8-difluoro-1, 4-dihydro -7-(3'-amino-5'-methyl pyrrolidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1- ethyl-6, 8-difluoro-1, 4-dihydro -7-(4'-aminopiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1- ethyl -6, 8-difluoro-1, 4-dihydro -7-{4'-(acetamido) piperidin-1-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1- ethyl-6, 8-difluoro-1, 4-dihydro -7-{(1 α ,5 α ,6 α)-6'-(t-butoxycarbonyl amino)-3-azabicyclo [3.1.0]-hex-3-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-1, 4-dihydro-5-methyl- 7-(4'-ethoxypiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-1, 4-dihydro-5-methyl- 7-(3', 3'-dimethylpiperazin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-{4'-(dimethylamino)-3'-methyl piperidin-1-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(4'-hydroxy-3'-isobutyl piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(4'-hydroxy-3',3'-dimethyl piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(4'-hydroxy-3',5'-dimethyl piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(3'-methylpiperazin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(cis-4'-amino-3',5'-dimethylpiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6,8-difluoro-5-methyl-1,4-dihydro-7-(4'-hydroxy-3'-aminomethyl piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6,8-difluoro-1,4-dihydro-7-(5'-amino-2'-methyl-pyrrolidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6, 8-difluoro-1, 4-dihydro -7-{3'-(L-ala-L-ala) amino pyrrolidin-1-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6, 8-difluoro-1, 4-dihydro -7-{4'-(di-n-butylamino) piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6, 8-difluoro-1, 4-dihydro -7-{4'-(t-butoxycarbonyl-L-ala-L-ala)aminopiperidin-1-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6, 8-difluoro-1, 4-dihydro -7-(4'- propionoxy piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6, 8-difluoro-1, 4-dihydro -7-(4'-hydroxy-3',3'-dimethyl-piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6,8-difluoro-1, 4-dihydro -7-{4'-(1-pyrrolidinyl) piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6,8-difluoro-1,4-dihydro-7-{4'-[(piperidin-4-yl) aminomethyl]-piperidin-1-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6, 8-difluoro-1, 4-dihydro -7-{{(1,2',2', 6',6'-pentamethyl piperidin-4-yl)methylamino}-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6,8-difluoro-1, 4-dihydro -7-(3',5'-dimethyl morpholin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6, 8-difluoro-1, 4-dihydro -7-(4'-cyclopropyl piperazin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6, 8-difluoro-1, 4-dihydro -7-(3', 5'-dimethyl-4-pivaloyl piperazin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

Ethyl 6,8-difluoro-7-(4-hydroxypiperidin-1-yl)-1-(1-phenylthio-3(*S*)-but-3-yl)-1,4-dihydro-4-oxo-quinoline-3-carboxylate;

1- (2'-Trifluoromethylphenyl) -6-fluoro-1, 4-dihydro- -7-(3', 3', 4'-trimethyl piperazin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1- (2'-trifluoromethylphenyl)-6,8-difluoro-1, 4-dihydro -7-(morpholin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1- (2'-trifluoromethylphenyl) -6, 8-difluoro-1, 4-dihydro -7-(3',5'-dimethylmorpholin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1- (2'-trifluoromethylphenyl) -6, 8-difluoro-1, 4-dihydro -7-(3',5'-dimethyl piperazinyl-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1- (4'-trifluoromethylphenyl) -6, 8-difluoro-1, 4-dihydro -7-(3'-aminopyrrolidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1- (4'-Fluorophenyl) -6-fluoro-1,4-dihydro -7-{4'-ethylamino)piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1- (2',4'-Difluorophenyl) -6-fluoro-1, 4-dihydro-7-(3', 5'-dimethyl piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1- (2',4'-difluorophenyl) -6, 8-difluoro-1, 4-dihydro -7-(3'-hydroxy-5'-methylpyrrolidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1- (2',4'-difluorophenyl) -6, 8-difluoro-1, 4-dihydro -7-(3',3'-dimethyl piperazinyl-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-1, 4-dihydro -7-[(3'-aminoethoxycarbonyl)pyrrolidin-3-yl]-4-oxo-1,8-naphthyridine-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-1,4-dihydro-7-(pyrrolidin-3-yl-amino)-4-oxo-naphthyridine-3-carboxylic acid and its salts;

1- (2',4'-Difluorophenyl) -6-fluoro-1, 4-dihydro -7-(piperidin-4-yl-amino)-4-oxo-1,8-naphthyridine-3-carboxylic acid and its salts;

Ethyl-1- (2',4'-difluorophenyl) -6-fluoro-1, 4-dihydro -7-[[1 α ,5 α ,6 α]-3-N-benzyl-3-azabicyclo[3.1.0]hex-6-yl-amino]-4-oxo-1,8-naphthyridine-3-carboxylate and its salts;

1-(2,4-difluorophenyl) -6-fluoro-7-(1-phenyl-4,5,6,7-tetrahydropyrazolo [4,3-c]pyridin-1-yl)-1, 4-dihydro-4-oxo-1, 8-naphthyridine- 3-carboxylic acid and its salts;

(S)-(-)-9-Fluoro-6,7-dihydro-8-(4'-carboxamidopiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid and its salts;

(R)-(+)-9-Fluoro-6,7-dihydro-8-(4'-hydroxypiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid L-arginine salt;

(S)-(-)-9-Fluoro-6,7-dihydro-8-(4'-hydroxy-3',3'-dimethylpiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid and its salts;

(S)-(-)-N-methylpiperidin-1-yl-9-fluoro-6,7-dihydro-8-(4'-hydroxypiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylate;

(S)-(-)-Morpholinoethyl-9-fluoro-6,7-dihydro-8-(4'-hydroxypiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylate and its salts;

Ethoxycarbonyl methyl (R)-(+)-9-fluoro-6,7-dihydro-8-(4'-hydroxypiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylate;

1-Cyclopropyl-6-fluoro-1,4-dihydro-5-methyl-7-(4'-methoxypiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

7-Bromo-1-cyclopropyl-6-fluoro-5-methyl-1,4-dihydro-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(4'-amino-3'-methylpiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(4'-amino-3'-methylpiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-{3,3-dimethyl-4'-ethylamino piperidin-1-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(4'-amino-3'-3'-dimethylpiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-{4'-(dimethylamino)piperidin-1-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(4'-hydroxy-4'-methylpiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(3',3'-dimethyl-4'-hydroxypiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6,8-difluoro-5-methyl-1,4-dihydro-7-(3'-aminomethyl-4'-hydroxypiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6,8-difluoro-1,4-dihydro-7-(3'-aminomethyl-4'-hydroxypiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Ethyl-6,8-difluoro-1,4-dihydro-7-(3'-5'-dimethylpiperazin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Ethyl-6, 8-difluoro-1, 4-dihydro -7- $\{(1\alpha,5\alpha,6\alpha)$ -6'-amino-3'-azabicyclo [3.1.0] hex-3'-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-(2',4'-difluorophenyl)-6,8-difluoro-1,4-dihydro-7-(3'-aminopyrrolidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6,8-difluoro-1,4-dihydro-7- $\{(3'$ -aminoethoxycarbonyl pyrrolidin-3-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-1,4-dihydro-7-(pyrrolidin-3'-ylamino)-4-oxo-naphthyridine-3-carboxylic acid and its salts;

1-(2',4'-Difluorophenyl)-6-fluoro-1,4-dihydro-7-(piperidin-4'-ylamino)-4-oxo-naphthyridine-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-1, 4-dihydro -7-(4'-amino-3'-ethylpiperidin-1-yl)-4-oxo-naphthyridine-3-carboxylic acid and its salts;

(S)-(-)-9-Fluoro-6,7-dihydro-8-(4'-hydroxypiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid 0.2 hydrate;

(RS)- (\pm) -9-Fluoro-6,7-dihydro-8-{4'-(D-phenylalanyloxy) piperidin-1-yl}-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid hydrochloride;

(RS)- (\pm) -9-Fluoro-6,7-dihydro-8-{4'-(L- α -aspartylxy) piperidin-1-yl}-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid hydrochloride;

(RS)- (\pm) -9-Fluoro-6,7-dihydro-8-{4'-(L-leucylxy)piperidin-1-yl}-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid dihydrochloride;

(S)-(-)-9-Fluoro-6,7-dihydro-8-{4'-(D-leucylxy)piperidin-1-yl}-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid hydrochloride;

(S)-(-)-9-Fluoro-6,7-dihydro-8-{4'-(L-alanyloxy)piperidin-1-yl}-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid hydrochloride;

(S)-(-)-Morpholinoethyl-9-fluoro-6,7-dihydro-8-(4'-hydroxypiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylate and its salts;

(R)-(+)-8,9-difluoro-6,7-dihydro-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-[S-phenylalanyl-S-lysine methyl ester]carboxamide;

(RS)-(±)-9-Fluoro-6,7-dihydro-8-(trans-4'-hydroxy-3'-methylpiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid and its salts;

(RS)-(±)-9-Fluoro-6,7-dihydro-8-(cis-4'-hydroxy-3'-methylpiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid and its salts;

(S)-(-)-9-Fluoro-6,7-dihydro-8-(trans-4'-hydroxy-3'-methylpiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid and its salts;

7H-Pyrido[1,2,3-de]-1,4-benzoxazine-9-fluoro-2,3-dihydro-3-methyl-10-(4'-hydroxy-3'-ethylpiperidin-1'-yl)-7-oxo-6-carboxylic acid and its salts;

10-Fluoro-11-[(1 α ,5 α ,6 α)-6-amino-3-azabicyclo[3.1.0]hex-3-yl]-3,4-dihydro-4(S)-methyl-8-oxo-2H,8H-pyrido[1,2,3-ef]-1,5-benzoxazepine-7-carboxylic acid hydrochloride;

N-1-{7-(1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-quinoline-3-carboxylic acid)}-N-3-amino-{7-(1-(2,4-difluorophenyl)-6-fluoro-1,4-dihydro-4-oxo-1,8-naphthyridine-3-carboxylic acid)}-pyrrolidine;

N-1-{7-(1-cyclopropyl)-6-fluoro-1,4-dihydro-4-oxo-1,8-naphthyridine-3-carboxylic acid)}-N-3-amino-{7-(1-cyclopropyl)-6-fluoro-1,4-dihydro-4-oxo-1,8-naphthyridine-3-carboxylic acid)}-pyrrolidine;

N-1-{7-(1-cyclopropyl)-6-fluoro-1,4-dihydro-4-oxo-1,8-naphthyridine-3-carboxylic acid}}-N-3-amino-{7-(1-cyclopropyl)-6,8-difluoro-5-amino-1,4-dihydro-4-oxo-quinoline-3-carboxylic acid}}-pyrrolidine;

N-1-{7-(1-cyclopropyl)-6-fluoro-1,4-dihydro-4-oxo-1,8-naphthyridine-3-carboxylic acid}}-N-4-{7-(1-cyclopropyl)-6,8-difluoro-5-amino-1,4-dihydro-4-oxo-quinoline-3-carboxylic acid}}-piperazine;

N-1-{7-(1-cyclopropyl)-6-fluoro-5-methyl-1,4-dihydro-4-oxo-quinolone-3-carboxylic acid}}-N-3-amino-{7-(1-(2,4-difluorophenyl)-6-fluoro-1,4-dihydro-4-oxo-1,8-naphthyridine-3-carboxylic acid}}-pyrrolidine;

N-1-{7-(1-cyclopropyl)-6-fluoro-5-methyl-1,4-dihydro-4-oxo-quinolone-3-carboxylic acid}}-N-4-amino-{7-(1-cyclopropyl)-6,8-difluoro-5-amino-1,4-dihydro-4-oxo-quinoline-3-carboxylic acid}}-piperidine;

N-1-{7-(1-cyclopropyl)-6-fluoro-5-methyl-1,4-dihydro-4-oxo-quinolone-3-carboxylic acid}}-N-3-amino-{7-(1-cyclopropyl)-6,8-difluoro-5-amino-1,4-dihydro-4-oxo-quinoline-3-carboxylic acid}}-pyrrolidine;

N-1-{7-(1-(2,4-difluorophenyl)-6-fluoro-1,4-dihydro-4-oxo-1,8-naphthyridine-3-carboxylic acid}}-N-4-{7-(1-cyclopropyl)-6-fluoro-1,4-dihydro-4-oxo-quinoline-3-carboxylic acid}}-piperazine;

N-3-azabicyclo{7-(1-(2,4-difluorophenyl)-6-fluoro-1,4-dihydro-4-oxo-1,8-naphthyridine-3-carboxylic acid}}-[1 α ,5 α ,6 α]-N-6-amino-{7-(1-(2,4-difluorophenyl)-6-fluoro-1,4-dihydro-4-oxo-1,8-naphthyridine-3-carboxylic acid}}-[3.1.0] hexane; and

N-1-{7-(1-cyclopropyl)-6,8-difluoro-5-amino-1,4-dihydro-4-oxo-quinolone-3-carboxylic acid}}-N-4-amino-{ethyl 2,3,6-trifluorophenyl-4-carboxylate}}-piperidine.

329. (New) A method for treating a microbial infection in an animal said infection caused by a microbe, comprising administering to the animal with said infection an antimicrobial

agent and an efflux pump inhibitor according to claim 326 in an amount sufficient to reduce efflux pump activity, wherein said efflux pump inhibitor increases the susceptibility of said microbe to said antimicrobial agent.

330. (New) A method for prophylactic treatment of an animal at risk for developing a microbial infection caused by a microbe comprising administering to the animal an antimicrobial agent and an efflux pump inhibitor according to claim 326 in an amount sufficient to reduce efflux pump activity, wherein said efflux pump inhibitor increases the susceptibility of said microbe to said antimicrobial agent.

331. (New) A method of enhancing the antimicrobial activity of an antimicrobial agent against a microbe, comprising contacting said microbe with said antimicrobial agent and an efflux pump inhibitor according to claim 326 in an amount effective to inhibit an efflux pump in said microbe.

332. (New) The method of suppressing growth of a microbe expressing an efflux pump, comprising contacting said microbe with an efflux pump inhibitor according to claim 326 in the presence of a concentration of antimicrobial agent below the MIC of said antimicrobial agent to said microbe.

333. (New) A method for treating a microbial infection in an animal said infection caused by a microbe, comprising administering to the animal with said infection an antimicrobial agent and an efflux pump inhibitor according to claim 328 in an amount sufficient to reduce efflux pump activity, wherein said efflux pump inhibitor increases the susceptibility of said microbe to said antimicrobial agent.

334. (New) A method for prophylactic treatment of an animal at risk for developing a microbial infection caused by a microbe comprising administering to the animal an antimicrobial agent and an efflux pump inhibitor according to claim 328 in an amount sufficient to reduce efflux pump activity, wherein said efflux pump inhibitor increases the susceptibility of said microbe to said antimicrobial agent.

335. (New) A method of enhancing the antimicrobial activity of an antimicrobial agent against a microbe, comprising contacting said microbe with said antimicrobial agent and an efflux pump inhibitor according to claim 328 in an amount effective to inhibit an efflux pump in said microbe.

336. (New) The method of suppressing growth of a microbe expressing an efflux pump, comprising contacting said microbe with an efflux pump inhibitor according to claim 328 in the presence of a concentration of antimicrobial agent below the MIC of said antimicrobial agent to said microbe.

337. (New) The method according to any one of claims 329, 330, 333 or 334 wherein said animal is a mammal.

338. (New) The method according to any one of claims 329 to 336 wherein said microbe is a bacterium.

339. (New) The method according to claim 338, wherein said bacterium is *Pseudomonas aeruginosa*, *Pseudomonas fluorescens*, *Pseudomonas acidovorans*, *Pseudomonas alcaligenes*, *Pseudomonas putida*, *Stenotrophomonas maltophilia*, *Burkholderia cepacia*, *Burkholderia pseudomallei*, *Aeromonas hydrophilia*, *Escherichia coli*, *Citrobacter freundii*,

Salmonella typhimurium, *Salmonella enterica* Serovar *typhimurium*, *Salmonella typhi*,
Salmonella paratyphi, *Salmonella enteritidis*, *Shigella dysenteriae*, *Shigella flexneri*, *Shigella*
sonnei, *Enterobacter cloacae*, *Enterobacter aerogenes*, *Klebsiella pneumoniae*, *Klebsiella*
oxytoca, *Serratia marcescens*, *Francisella tularensis*, *Morganella morganii*, *Proteus*
mirabilis, *Proteus vulgaris*, *Providencia alcalifaciens*, *Providencia rettgeri*, *Providencia*
stuartii, *Acinetobacter calcoaceticus*, *Acinetobacter haemolyticus*, *Yersinia enterocolitica*,
Yersinia pestis, *Yersinia pseudotuberculosis*, *Yersinia intermedia*, *Bordetella pertussis*,
Bordetella parapertussis, *Bordetella bronchiseptica*, *Haemophilus influenzae*, *Haemophilus*
parainfluenzae, *Haemophilus haemolyticus*, *Haemophilus parahaemolyticus*, *Haemophilus*
ducreyi, *Pasteurella multocida*, *Pasteurella haemolytica*, *Branhamella catarrhalis*,
Helicobacter pylori, *Campylobacter fetus*, *Campylobacter jejuni*, *Campylobacter coli*,
Borrelia burgdorferi, *Vibrio cholerae*, *Vibrio parahaemolyticus*, *Legionella pneumophila*,
Listeria monocytogenes, *Neisseria gonorrhoeae*, *Neisseria meningitidis*, *Gardnerella*
vaginalis, *Bacteroides fragilis*, *Bacteroides distasonis*, *Bacteroides 3452A* homology group,
Bacteroides vulgatus, *Bacteroides ovalus*, *Bacteroides thetaiotaomicron*, *Bacteroides*
uniformis, *Bacteroides eggerthii*, *Bacteroides splanchnicus*, *Clostridium difficile*,
Mycobacterium tuberculosis, *Mycobacterium avium*, *Mycobacterium intracellulare*,
Mycobacterium leprae, *Corynebacterium diphtheriae*, *Corynebacterium ulcerans*,
Streptococcus pneumoniae, *Streptococcus agalactiae*, *Streptococcus pyogenes*, *Enterococcus*
faecalis, *Enterococcus faecium*, *Staphylococcus aureus*, *Staphylococcus epidermidis*,
Staphylococcus saprophyticus, *Staphylococcus intermedius*, *Staphylococcus hyicus* subsp.
hyicus, *Staphylococcus haemolyticus*, *Staphylococcus hominis*, *Staphylococcus*
saccharolyticus, or *Rickettsia prowazekii*.

340. (New) The method according to claim 339, wherein said bacterium is *Streptococcus pneumoniae*, *Streptococcus pyogenes*, *Pseudomonas aeruginosa*, *Escherischia coli* or *Staphylococcus aureus*.

341. (New) The method according to any one of claims 329, 330, 333 or 334, wherein said microbial infection is a bacterial infection.

342. (New) The method according to any one of claims 329 to 336, wherein said antimicrobial agent is an antibacterial agent.

343. (New) The method claim 342, wherein said antibacterial agent is selected from the group consisting of quinolone, tetracycline, beta-lactam, coumermycin, chloramphenicol, glycopeptide, aminoglycoside, macrolide, rifamycin and oxazolidinone.

344. (New) The method according to any one of claims 329 to 336 wherein said efflux pump is a *mefA* or *mefE* pump.

345. (New) The method according to any one of claims 329 to 332 wherein the efflux pump is a *mefA* or *mefE* pump wherein said efflux pump inhibitor is selected from the group consisting of:

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(4'-amino-3'-methyl piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6-fluoro-8-methoxy-1, 4-dihydro -7-{4'-(methylamino)-3',3'-dimethylpiperidin-1-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

i-Propyl 1-cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro -7-(4'-amino-3',3'-dimethyl-piperidin-1-yl)-4-oxo-quinoline-3-carboxylate and its salts;

n-Butyl 1-cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro -7-(4'-amino-3',3'-dimethyl-piperidin-1-yl)-4-oxo-quinoline-3-carboxylate and its salts;

Ethoxycarbonylmethyl 1-cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro -7-(4'-amino-3',3'-dimethylpiperidin-1-yl)-4-oxo-quinoline-3-carboxylate and its salts;

Benzyl 1-cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro -7-{4'-(t-butoxycarbonyl amino)-3',3'-dimethylpiperidin-1-yl}-4-oxo-quinoline-3-carboxylate and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro -7-{4'-N-(t-butoxycarbonyl-L-alanyl) amino-3',3'-dimethylpiperidin-1-yl}-4-oxo-quinoline-3-carboxylic acid hydrochloride;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro -7-(4'-L-alanylamino-3',3'-dimethylpiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid hydrochloride;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro -7-(3',3'-dimethyl-4'-(t-butoxy-carbonylvalinylamino)piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro -7-(3',3'-dimethyl-4'-(L)-valyl-aminopiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid hydrochloride;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-{4'-(L)-aspartylamino-3',3'-dimethylpiperidin-1-yl}-4-oxo-quinoline-3-carboxylic acid hydrochloride;

1-Ethyl-6,8-difluoro-1,4-dihydro-7-(4'-ethylaminopiperidin-1'-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6,8-difluoro-1,4-dihydro-7-(4'-amino-3'-methyl piperidin -1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6,8-difluoro-1,4-dihydro-7-(quinuclidinyl-3-yl-amino)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6, 8-difluoro-1, 4-dihydro-7- {(1 α ,5 α ,6 α)-6-amino-N-benzyl-3-azabicyclo [3.1.0] hex-6-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

1-(3'-Fluorophenyl)-6-fluoro -1, 4-dihydro -7-(4'-methylpiperazin-1'-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-(2,4-Difluorophenyl) -6-fluoro-1, 4-dihydro-7- (4'-ethylaminopiperidin-1'-yl)- 4-oxo-quinoline-3-carboxylic acid and its salts;

1-(2',4'-Difluorophenyl)-6-fluoro-5-methyl-1, 4-dihydro -7-(4'-aminopiperidin-1'-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-(2',4'-Difluorophenyl)-6-fluoro-5-methyl-1,4-dihydro-7-(4'-methylamino piperidin-1'-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-1,4-dihydro-7-(3'-aminopyrrolidin-1'-yl)-4-oxo-1,8-naphthyridine-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-1,4-dihydro-7- {(1 α ,5 α ,6 α)-6-amino--N-benzyl-3-azabicyclo [3.1.0] hex-6-yl}-4-oxo-1,8-naphthyridine-3-carboxylic acid and its salts;

1-(2,4-Difluorophenyl) -6-fluoro-1, 4-dihydro-7-(3'-aminopyrrolidin-1'-yl)- 4-oxo-1,8-naphthyridine-3-carboxylic acid and its salts;

1-(2,4-Difluorophenyl) -6-fluoro-1, 4-dihydro-7- {(1 α ,5 α ,6 α)-6-amino-N-benzyl-3-azabicyclo [3.1.0]hex-6-yl}- 4-oxo-1,8-naphthyridine-3-carboxylic acid and its salts;

1-(2,4-Difluorophenyl)-6-fluoro-1,4-dihydro-7-(3',3'-dimethyl-4'-hydroxy piperdin-1'-yl)-4-oxo-1,8-naphthyridine-3-carboxylic acid and its salts;

(RS)-(±)-9-Fluoro-6, 7-dihydro-8-{4'-(L- α -aspartyl-oxo)piperidin-1-yl}-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid hydrochloride;

7H-Pyrido[1,2,3-de]-1,4-benzoxazine-9-fluoro-2,3-dihydro-3-methyl-10-(3'-ethyl 4'-hydroxypiperidin-1'-yl)-7-oxo-6-carboxylic acid and its salts;

7H-Pyrido[1,2,3-de]-1,4-benzoxazine-9-fluoro-2, 3-dihydro-3-methyl-10- (3'-amino methyl-4'-hydroxypiperidin-1'-yl)-7-oxo-6-carboxylic acid and its salt;

1-Cyclopropyl-6, 8-difluoro-5-methyl-1, 4-dihydro -7-(3', 3'-dimethyl-4'-ethylamino piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salt;

1-cyclopropyl-6,7,8-trifluoro-5-methyl-1,4-dihydro - 4-oxo-quinoline-3-carboxylic acid;

(S)-(-)-9-Fluoro-6,7-dihydro-8- (3', 3'-dimethyl-4'-ethylaminopiperidin-1-yl)-5-methyl-1-oxo-1H, 5H-benzo[i,j]quinolizine-2-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-1, 4-dihydro-7- (3'-aminomethyl-4'-hydroxypiperidin 1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-1, 4-dihydro-7- (4'-dimethylamino-3'-methylpiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-{4'-cyclopropyl aminopiperidin-1-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1, 4-dihydro -7-(4'-(t-butoxycarbonyl-L-ala-ala)amino-3', 3'-dimethyl piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid hydrochloride;

5-Amino-1-cyclopropyl-6-fluoro-8-methoxy-1, 4-dihydro -7-{4'-ethylamino-3', 5'-dimethylpiperidin-1-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

Ethyl 1-(2,4-difluorophenyl) -6-fluoro -1, 4-dihydro-7- (4-amino-3-ethylpiperidin-1-yl)- 4-oxo-1,8-naphthyridine-3-carboxylate;

1-(2,4-difluorophenyl) -6-fluoro-1, 4-dihydro-7- (4-amino-3, 5-dimethylpiperidin-1-yl)- 4-oxo-1,8-naphthyridine-3-carboxylic acid and its salts;

Ethyl 1-(2,4-difluorophenyl)-6-fluoro-5-methyl-1,4-dihydro-7-(4-amino-3,3-dimethylpiperidin-1-yl)-4-oxo-1,8-naphthyridine-3-carboxylate;

(S)-(-)-9-fluoro-6,7-dihydro-8-(4'-hydroxy-3'-fluoropiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid and its salts;

10-Fluoro-11-(4-aminopiperidin-1-yl)-3,4-dihydro-4(S)-methyl-8-oxo-2H,8H-pyrido[1,2,3-ef]-1,5-benzoxazepin-7-carboxylic acid and its salt;

(RS)-(\pm)-6,7-dihydro-8-(trans-4'-hydroxy-3'-methylpiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid and its salts;

(RS)-(\pm)-6,7-dihydro-8-(cis-4'-hydroxy-3'-methylpiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid and its salts; and

(RS)-(\pm)-6,7-dihydro-8-(4'-hydroxy-3',3'-dimethylpiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid and its salts;

in an amount sufficient to reduce efflux pump activity, wherein said efflux pump inhibitor increases the susceptibility of said microbe to said antimicrobial agent.

346. (New) The method according to any one of claims 329 to 336, wherein said efflux pump is a NorA, Bmr, PmrA, QacA or QacB pump.

347. (New) The method according to any one of claims 329 to 332, wherein the efflux pump is a NorA, Bmr, PmrA, QacA or QacB pump, wherein the efflux pump inhibitor is selected from the group consisting of:

1-Ethyl-6-fluoro-1,4-dihydro-7-(1',2',3',4'-tetrahydroisoquinolin-2-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Ethyl-6,8-fluoro-1,4-dihydro-7-(4'-acetoxypiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Ethyl-6,8-fluoro-1, 4-dihydro -7-(4'-(2'-(2'-oxazolidin-1-yl) ethyl) piperazin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1- Ethyl-6, 8-difluoro-1, 4-dihydro -7-((1 α ,5 α ,6 α)-6-amino-3-azabicyclo [3.1.0]-hex-3-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1- ethyl -6, 8-difluoro-1, 4-dihydro -7-(3'-amino-5'-methyl pyrrolidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1- ethyl-6, 8-difluoro-1, 4-dihydro -7-(4'-aminopiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1- ethyl -6, 8-difluoro-1, 4-dihydro -7-{4'-(acetamido) piperidin-1-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1- ethyl-6, 8-difluoro-1, 4-dihydro -7-((1 α ,5 α ,6 α)-6'-(t-butoxycarbonyl amino)-3-azabicyclo [3.1.0]-hex-3-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-1, 4-dihydro-5-methyl- 7-(4'-ethoxypiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-1, 4-dihydro-5-methyl- 7-(3', 3'-dimethylpiperazin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-{4'-(dimethylamino)-3'-methyl piperidin-1-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(4'-hydroxy-3'-isobutyl piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(4'-hydroxy-3',3'-dimethyl piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(4'-hydroxy-3',5'-dimethyl piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(3'-methylpiperazin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(cis-4'-amino-3',5'-dimethylpiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6,8-difluoro-5-methyl-1,4-dihydro-7-(4'-hydroxy-3'-aminomethyl piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6,8-difluoro-1,4-dihydro-7-(5'-amino-2'-methyl-pyrrolidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6, 8-difluoro-1, 4-dihydro -7-{3'-(L-ala-L-ala) amino pyrrolidin-1-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6, 8-difluoro-1, 4-dihydro -7-{4'-(di-n-butylamino) piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6, 8-difluoro-1, 4-dihydro -7-{4'-(t-butoxycarbonyl-L-ala-L-ala)aminopiperidin-1-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6, 8-difluoro-1, 4-dihydro -7-(4'- propionoxy piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6, 8-difluoro-1, 4-dihydro -7-(4'-hydroxy-3',3'-dimethyl-piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6,8-difluoro-1, 4-dihydro -7-{4'-(1-pyrrolidinyl) piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6,8-difluoro-1,4-dihydro-7-{4'-[(piperidin-4-yl) aminomethyl]-piperidin-1-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6, 8-difluoro-1, 4-dihydro -7-{(1,2',2', 6',6'-pentamethyl piperidin-4-yl)methylamino}-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6,8-difluoro-1,4-dihydro-7-(3',5'-dimethyl morpholin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6,8-difluoro-1,4-dihydro-7-(4'-cyclopropyl piperazin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6,8-difluoro-1,4-dihydro-7-(3',5'-dimethyl-4-pivaloyl piperazin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

Ethyl 6,8-difluoro-7-(4-hydroxypiperidin-1-yl)-1-(1-phenylthio-3(*S*)-but-3-yl)-1,4-dihydro-4-oxo-quinoline-3-carboxylate;

1-(2'-Trifluoromethylphenyl)-6-fluoro-1,4-dihydro-7-(3',3',4'-trimethyl piperazin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-(2'-trifluoromethylphenyl)-6,8-difluoro-1,4-dihydro-7-(morpholin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-(2'-trifluoromethylphenyl)-6,8-difluoro-1,4-dihydro-7-(3',5'-dimethylmorpholin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-(2'-trifluoromethylphenyl)-6,8-difluoro-1,4-dihydro-7-(3',5'-dimethyl piperazinyl-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-(4'-trifluoromethylphenyl)-6,8-difluoro-1,4-dihydro-7-(3'-aminopyrrolidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-(4'-Fluorophenyl)-6-fluoro-1,4-dihydro-7-(4'-ethylamino)piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-(2',4'-Difluorophenyl)-6-fluoro-1,4-dihydro-7-(3',5'-dimethyl piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-(2',4'-difluorophenyl)-6,8-difluoro-1,4-dihydro-7-(3'-hydroxy-5'-methylpyrrolidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1- (2',4'-difluorophenyl) -6, 8-difluoro-1, 4-dihydro -7-(3',3'-dimethyl piperazinyl-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-1, 4-dihydro -7- {(3'-aminoethoxycarbonyl)pyrrolidin-3-yl} -4-oxo-1,8-naphthyridine-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-1,4-dihydro-7-(pyrrolidin-3-yl-amino)-4-oxo-naphthyridine-3-carboxylic acid and its salts;

1- (2',4'-Difluorophenyl) -6-fluoro-1, 4-dihydro -7-(piperidin-4-yl-amino)-4-oxo-1,8-naphthyridine-3-carboxylic acid and its salts;

Ethyl-1- (2',4'-difluorophenyl) -6-fluoro-1, 4-dihydro -7- {[1 α ,5 α ,6 α]-3-N-benzyl-3-azabicyclo[3.1.0]hex-6-yl-amino} -4-oxo-1,8-naphthyridine-3-carboxylate and its salts;

1-(2,4-difluorophenyl) -6-fluoro-7-(1-phenyl-4,5,6,7-tetrahydropyrazolo [4,3-c]pyridin-1-yl-1, 4-dihydro-4-oxo-1, 8-naphthyridine- 3-carboxylic acid and its salts;

(S)-(-)-9-Fluoro-6,7-dihydro-8-(4'-carboxamidopiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid and its salts;

(R)-(+)-9-Fluoro-6,7-dihydro-8-(4'-hydroxypiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid L-arginine salt;

(S)-(-)-9-Fluoro-6,7-dihydro-8-(4'-hydroxy-3',3'-dimethylpiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid and its salts;

(S)-(-)-N-methylpiperidin-1-yl-9-fluoro-6,7-dihydro-8-(4'-hydroxypiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylate;

(S)-(-)-Morpholinoethyl-9-fluoro-6,7-dihydro-8-(4'-hydroxypiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylate and its salts;

Ethoxycarbonylmethyl (R)-(+)- 9-fluoro-6,7-dihydro-8-(4'-hydroxypiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylate;

N-1-{7-(1-cyclopropyl-6-fluoro-1, 4-dihydro-4-oxo-quinoline-3-carboxylic acid)}-N-3-amino-{7-(1-(2,4-difluorophenyl)-6-fluoro-1,4-dihydro-4-oxo-1,8-naphthyridine-3-carboxylic acid)}-pyrrolidine.

N-1-{7-(1-cyclopropyl) -6-fluoro-1, 4-dihydro-4-oxo-1, 8-naphthyridine- 3-carboxylic acid)}-N-3-amino-{7-(1-cyclopropyl) -6-fluoro-1, 4-dihydro-4-oxo-1, 8-naphthyridine- 3-carboxylic acid)}-pyrrolidine;

N-1-{7-(1-cyclopropyl) -6-fluoro-1, 4-dihydro-4-oxo-1, 8-naphthyridine- 3-carboxylic acid)}-N-3-amino-{7-(1-cyclopropyl -6,8-difluoro-5-amino-1, 4-dihydro-4-oxo-quinoline-3-carboxylic acid)}-pyrrolidine;

N-1-{7-(1-cyclopropyl-6-fluoro-1, 4-dihydro-4-oxo-1, 8-naphthyridine- 3-carboxylic acid)}-N-4-{7-(1-cyclopropyl-6,8-difluoro-5-amino-1, 4-dihydro-4-oxo-quinoline-3-carboxylic acid)}-piperazine;

N-1-{7-(1-cyclopropyl-6-fluoro-5-methyl-1,4-dihydro-4-oxo-quinolone-3-carboxylic acid)}-N-3-amino-{7-(1-(2,4-difluorophenyl) -6-fluoro- 1, 4-dihydro-4-oxo-1, 8-naphthyridine-3-carboxylic acid)}-pyrrolidine;

N-1- {7-(1-cyclopropyl-6-fluoro-5-methyl-1, 4-dihydro-4-oxo-quinolone-3-carboxylic acid)}-N-4-amino {7-(1-cyclopropyl-6,8-difluoro-5-amino-1, 4-dihydro-4-oxo-quinoline-3-carboxylic acid)}-piperidine;

N-1- {7-(1-cyclopropyl-6-fluoro-5-methyl-1, 4-dihydro-4-oxo-quinolone-3-carboxylic acid)}-N-3-amino{7-(1-cyclopropyl-6,8-difluoro-5-amino-1, 4-dihydro-4-oxo-quinoline-3-carboxylic acid)}-pyrrolidine;

N-1- {7-(1-(2,4-difluorophenyl) -6-fluoro-1, 4-dihydro-4-oxo-1, 8-naphthyridine- 3-carboxylic acid)}-N-4- {7-(1-cyclopropyl-6-fluoro-1, 4-dihydro-4-oxo-quinoline-3-carboxylic acid)}-piperazine;

N-3-azabecyclo{7-(1-(2,4-difluorophenyl)-6-fluoro-1,4-dihydro-4-oxo-1,8-naphthyridine-3-carboxylic acid)}-[1 α ,5 α ,6 α]-N-6-amino-{7-1-(2,4-difluorophenyl)-6-fluoro-1,4-dihydro-4-oxo-1,8-naphthyridine-3-carboxylic acid)}-[3.1.0] hexane; and

N-1-{7-(1-cyclopropyl-6,8-difluoro-5-amino-1,4-dihydro-4-oxo-quinolone-3-carboxylic acid)}-N-4-amino-{ethyl 2,3,6-trifluorophenyl-4-carboxylate}-piperidine.

348. (New) The method according to any one of claims 329 to 336, wherein said microbe expressing an efflux pump is a Gram negative organism-bearing one or more of a MexAB-OprM, MexCD-OprJ, MexEF-OprM, MexXY-OprM, ARcrAB-TolC, AcrEF, MarA, SoxS, and Tet pumps.

349. (New) The method according to any one of claims 329 to 332, wherein the efflux pump is a MexAB-OprM, MexCD-OprJ, MexEF-OprM, MexXY-OprM, ARcrAB-TolC, AcrEF, MarA, SoxS, and Tet pump, wherein the efflux pump inhibitor is selected from the group consisting of:

1-Cyclopropyl-6-fluoro-1, 4-dihydro-5-methyl- 7-(4'-methoxypiperidin -1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

7-Bromo-1-cyclopropyl-6-fluoro-5-methyl-1,4-dihydro-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1, 4-dihydro -7-(4'-amino-3'-methylpiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(4'-amino-3'-methyl piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro -7-{3,3-dimethyl-4'-ethylamino piperidin-1-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(4'-amino-3'-3'-dimethyl piperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-{4'-(dimethylamino) piperidin-1-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(4'-hydroxy-4'-methylpiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-8-methoxy-1,4-dihydro-7-(3',3'-dimethyl-4'-hydroxypiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6,8-difluoro-5-methyl-1,4-dihydro-7-(3'-aminomethyl-4'-hydroxypiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6,8-difluoro-1,4-dihydro-7-(3'-aminomethyl-4'-hydroxypiperidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Ethyl-6,8-difluoro-1,4-dihydro-7-(3'-5'-dimethylpiperazin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Ethyl-6, 8-difluoro-1, 4-dihydro -7-{(1 α ,5 α ,6 α)-6'-amino-3'-azabicyclo [3.1.0] hex-3'-yl}-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-(2',4'-difluorophenyl)-6,8-difluoro-1,4-dihydro-7-(3'-aminopyrrolidin-1-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

5-Amino-1-cyclopropyl-6,8-difluoro-1,4-dihydro-7-{(3'-aminoethoxycarbonyl pyrrolidin-3-yl)-4-oxo-quinoline-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-1,4-dihydro-7-(pyrrolidin-3'-ylamino)-4-oxo-naphthyridine-3-carboxylic acid and its salts;

1-(2',4'-Difluorophenyl)-6-fluoro-1,4-dihydro-7-(piperidin-4'-ylamino)-4-oxo-naphthyridine-3-carboxylic acid and its salts;

1-Cyclopropyl-6-fluoro-1, 4-dihydro -7-(4'-amino-3'-ethylpiperidin-1-yl)-4-oxo-naphthyridine-3-carboxylic acid and its salts;

(S)-(-)-9-Fluoro-6,7-dihydro-8-(4'-hydroxypiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid 0.2 hydrate;

(RS)-(±)-9-Fluoro-6,7-dihydro-8-{4'-(D-phenylalanyloxy) piperidin-1-yl}-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid hydrochloride;

(RS)-(±)-9-Fluoro-6,7-dihydro-8-{4'-(L-α-aspartyloxy) piperidin-1-yl}-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid hydrochloride;

(RS)-(±)-9-Fluoro-6,7-dihydro-8-{4'-(L-leucyloxy)piperidin-1-yl}-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid dihydrochloride;

(S)-(-)-9-Fluoro-6,7-dihydro-8-{4'-(D-leucyloxy)piperidin-1-yl}-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid hydrochloride;

(S)-(-)-9-Fluoro-6,7-dihydro-8-{4'-(L-alanyloxy)piperidin-1-yl}-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid hydrochloride;

(S)-(-)-Morpholinoethyl-9-fluoro-6,7-dihydro-8-(4'-hydroxypiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylate and its salts;

(R)-(+)-8,9-difluoro-6,7-dihydro-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2- [S-phenylalanyl-S-lysine methyl ester]carboxamide;

(RS)-(±)-9-Fluoro-6,7-dihydro-8-(trans-4'-hydroxy-3'-methylpiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid and its salts;

(RS)-(±)-9-Fluoro-6,7-dihydro-8-(cis-4'-hydroxy-3'-methylpiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid and its salts;

(S)-(-)-9-Fluoro-6,7-dihydro-8-(trans-4'-hydroxy-3'-methylpiperidin-1-yl)-5-methyl-1-oxo-1H,5H-benzo[i,j]quinolizine-2-carboxylic acid and its salts;

7H-Pyrido[1,2,3-de]-1,4-benzoxazine-9-fluoro-2,3-dihydro-3-methyl-10-(4'-hydroxy-3'-ethylpiperidin-1'-yl)-7-oxo-6-carboxylic acid and its salts; and

10-Fluoro-11-[(1 α ,5 α ,6 α)-6-amino-3-azabicyclo[3.1.0]hex-3-yl]-3,4-dihydro-4(S)-methyl-8-oxo-2H,8H-pyrido[1,2,3-ef]-1,5-benzoxazepine-7-carboxylic acid hydrochloride.

350. (New) A pharmaceutical composition effective for the treatment of an infection caused by a microbe in an animal, said composition comprising an efflux pump inhibitor according to claim 326, an antimicrobial agent and a pharmaceutically acceptable carrier.

351. (New) The pharmaceutical composition of claim 350, wherein said antimicrobial agent is an antibacterial agent.

352. (New) The pharmaceutical composition of claim 351, wherein said antibacterial agent is a macrolide or ketolide.

353. (New) The composition of claim 352, wherein said macrolide or ketolide is selected from the group consisting of erythromycin, clarithromycin, azithromycin, roxithromycin, rokitamycin, spiramycin, josamycin and telithromycin.

354. (New) The pharmaceutical composition of claim 351, wherein said antibacterial agent is a fluoroquinolone.

355. (New) The composition of claim 354, wherein said fluoroquinolone is selected from the group consisting of ciprofloxacin, norfloxacin, levofloxacin, clinafloxacin, sitafloxacin, gatifloxacin, moxifloxacin, trovafloxacin, gemifloxacin and nadifloxacin.

356. (New) The pharmaceutical composition of claim 351, wherein said antibacterial agent is selected from the group consisting of tetracycline, beta-lactam, coumermycin, chloramphenicol, glycopeptide, aminoglycoside, rifamycin and oxazolidinone.

357. (New) A pharmaceutical composition effective for the treatment of an infection caused by a microbe in an animal, said composition comprising an efflux pump inhibitor according to claim 328, an antimicrobial agent and a pharmaceutically acceptable carrier.

358. (New) The pharmaceutical composition of claim 357, wherein said antimicrobial agent is an antibacterial agent.

359. (New) The pharmaceutical composition of claim 358, wherein said antibacterial agent is a macrolide or ketolide.

360. (New) The composition of claim 359, wherein said macrolide or ketolide is selected from the group consisting of erythromycin, clarithromycin, azithromycin, roxithromycin, rokitamycin, spiramycin, josamycin and telithromycin.

361. (New) The pharmaceutical composition of claim 358, wherein said antibacterial agent is a fluoroquinolone.

362. (New) The composition of claim 361, wherein said fluoroquinolone is selected from the group consisting of ciprofloxacin, norfloxacin, levofloxacin, clinafloxacin, sitafloxacin, gatifloxacin, moxifloxacin, trovafloxacin, gemifloxacin and nadifloxacin.

363. (New) The pharmaceutical composition of claim 358, wherein said antibacterial agent is selected from the group consisting of tetracycline, beta-lactam, coumermycin, chloramphenicol, glycopeptide, aminoglycoside, rifamycin and oxazolidinone.